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(54) INK JET RECORDING DEVICE

(57) Abstract:

PURPOSE: To ensure that the fixing properties of hot melt ink is constant and the thickness of the ink is optimized without using a high accuracy and high cost thermostat and being influenced by the type of a recording sheet and an ambient temperature.

CONSTITUTION: The fused ink droplets of a hot melt ink which is ejected from the nozzle 3 of a jet head 1 consisting of a main system 2, a heater 5 and a piezo-electric ceramics 6, are allowed to splash by ejection to an intermediate transfer medium 7 wound around a driven roller like a ring and a sheet feed roller 11. Then the ink which has cooled down on the intermediate

transfer medium 7 is reheated to become molten using a heater for fixing 8 arranged in the upstream side of the sheet feed roller 11 and thereby, is transferred to a recording sheet 14. A thickness detection means 19 is provided which consists of a light emitting part 20 and a light receiving/detection part 21 to determine the thickness of the intermediate transfer medium 7 sandwiched between a pressing roller 17 and a pressing heater 16 as well as a fixing heater 8.

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